

# Creating a Curved Barrel Ceiling

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Reference Number: **KB-00650**

Last Modified: **July 16, 2021**

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The information in this article applies to:



## QUESTION




I would like to create a barrel ceiling on the inside of my structure. How can I accomplish this?

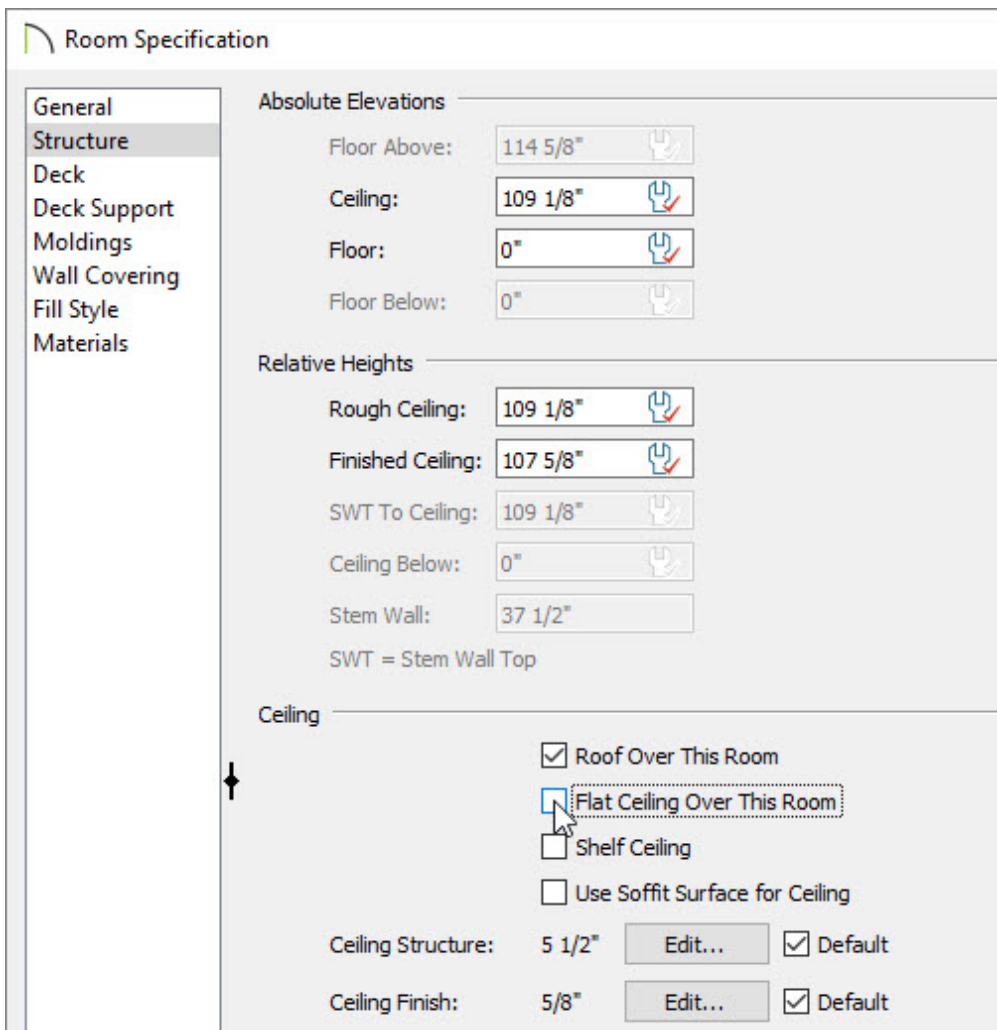


# ANSWER

You can easily create a custom curved ceiling for a structure using a manually drawn ceiling plane.




To create a curved or barrel ceiling

1. **Open**  the plan in which you would like to create a barrel ceiling.
2. Using the **Select Objects**  button, click in an empty space of the room in which you would like to create a barrel ceiling and click the **Open Object**  edit button.
3. On the **STRUCTURE** panel of the **Room Specification** dialog that opens, uncheck the box beside the **Ceiling Over This Room**, then click **OK** to close the dialog and apply your change.




The image shows the 'Room Specification' dialog box with the 'Structure' panel selected. The 'Ceiling' section at the bottom has the 'Flat Ceiling Over This Room' checkbox selected, which is highlighted by a mouse cursor. Other options like 'Roof Over This Room', 'Shelf Ceiling', and 'Use Soffit Surface for Ceiling' are unchecked. The 'Absolute Elevations' and 'Relative Heights' sections show various measurements for floor, ceiling, and stem wall.

Section	Parameter	Value	Icon
Absolute Elevations	Floor Above:	114 5/8"	Hand
	Ceiling:	109 1/8"	Hand with checkmark
	Floor:	0"	Hand with checkmark
	Floor Below:	0"	Hand
Relative Heights	Rough Ceiling:	109 1/8"	Hand with checkmark
	Finished Ceiling:	107 5/8"	Hand with checkmark
	SWT To Ceiling:	109 1/8"	Hand
	Ceiling Below:	0"	Hand
	Stem Wall:	37 1/2"	
Ceiling	Roof Over This Room	<input checked="" type="checkbox"/>	
	Flat Ceiling Over This Room	<input checked="" type="checkbox"/>	
	Shelf Ceiling	<input type="checkbox"/>	
	Use Soffit Surface for Ceiling	<input type="checkbox"/>	
Ceiling Structure/Finish	Ceiling Structure:	5 1/2"	Buttons: Edit..., Default (checked)
	Ceiling Finish:	5/8"	Buttons: Edit..., Default (checked)


4. With the default flat ceiling removed from the room, you can now create a curved barrel ceiling. Select **Build> Roof> Ceiling Plane**  from the menu.
  - Click and drag along one of the exterior walls on which the straight sides of the barrel ceiling will rest to create a ceiling baseline.
  - Release the mouse button, move your cursor into the middle of the room and click to set the ridge top of the ceiling plane.
  - The ceiling plane will display as a dashed, pink rectangle.
5. Using the **Select Objects**  tool, click on the ceiling plane near one of its edges to select it and display its edit handles.
6. Use the edit handles to resize the plane so that it completely encompasses the area over which you would like the barrel ceiling.
7. When the ceiling plane is appropriately sized, select it and click the **Open Object**  edit button.
8. On the **GENERAL** panel of the **Ceiling Plane Specification** dialog that opens:


- Place a check in the box beside **Curved Ceiling**, which will enable the options directly below it.
- Click the radio button to the left of the **Lock Inside Bottom Height** to lock it, then set the **Lock Pitch** value to **0**.
- Press the **Tab** key on your keyboard to apply this new value without closing the dialog box.
- Return to the Curved Ceiling section and assign an **Angle at Eave** (in degrees) value between **0°** and **89°**. **0°** would give you a flat ceiling and **89°** degrees, a full 1/2 barrel. Notice that when you press the **Tab** key on your keyboard, the angle values update so that they are symmetrical.
- If you are not sure what **Angle at Eave** you should use, specify **45°**. This is a good starting point, and you can make adjustments to this value at any time.
- Click the **OK** button to close the dialog and apply the specifications.


9. To see your barrel ceiling in a 3D view, select **3D> Create Perspective View> Full Camera**  and click and drag within the room or area that contains the barrel ceiling.


#### Related Articles

 [Creating a Curved Barrel Roof \(/support/article/KB-00649/creating-a-curved-barrel-roof.html\)](/support/article/KB-00649/creating-a-curved-barrel-roof.html)

 [Creating a Custom Arch Using a Polyline Solid \(/support/article/KB-00565/creating-a-custom-arch-using-a-polyline-solid.html\)](/support/article/KB-00565/creating-a-custom-arch-using-a-polyline-solid.html)

 [Creating a Soldier Course \(/support/article/KB-00797/creating-a-soldier-course.html\)](/support/article/KB-00797/creating-a-soldier-course.html)

 [Joining a Barrel Roof to a Flat Roof Plane \(/support/article/KB-00684/joining-a-barrel-roof-to-a-flat-roof-plane.html\)](/support/article/KB-00684/joining-a-barrel-roof-to-a-flat-roof-plane.html)

 [Using Molding Polylines to Create a Custom Column \(/support/article/KB-02791/using-molding-polylines-to-create-a-custom-column.html\)](/support/article/KB-02791/using-molding-polylines-to-create-a-custom-column.html)



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